

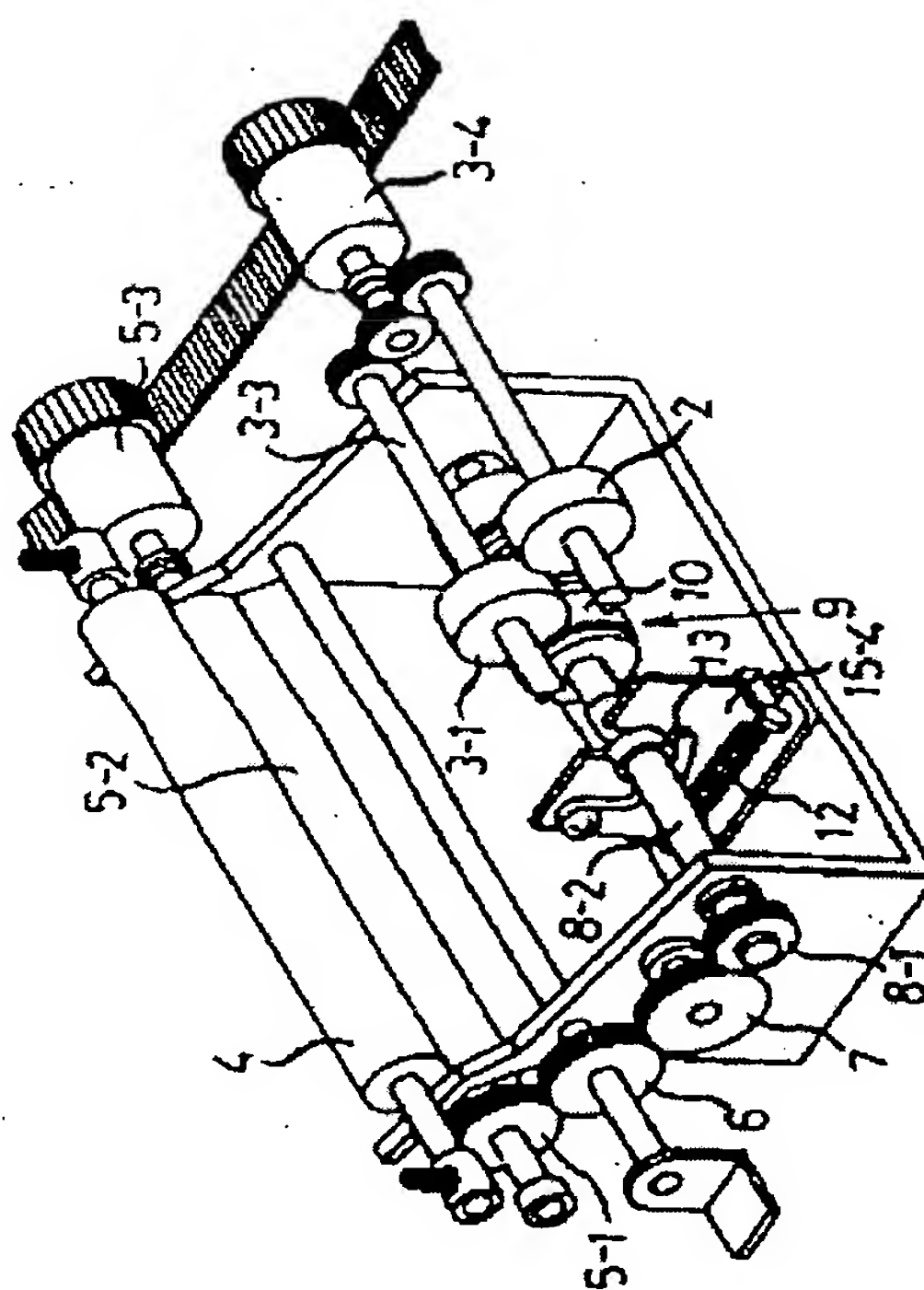
**PAPER FEEDER**

**Patent number:** JP59108636  
**Publication date:** 1984-06-23  
**Inventor:** MAKITA NOBUHIRO; others: 01  
**Applicant:** RICOH KK  
**Classification:**  
- international: B65H3/06; B65H3/52; G03G15/00  
- european:  
**Application number:** JP19820217682 19821214  
**Priority number(s):**

**Abstract of JP59108636**

**PURPOSE:** To reduce wear in a torque limiter and prolong its service life as well as to perform stable paper-feed passing, by synchronizing the allowing timing of reverse torque to a reversing roller with on-off operation of a register roller.

**CONSTITUTION:** Torque to be given to a reversing roller 10 works in a way of synchronizing the on-off timing of the drive timing of each of paired register rollers 4 and 5-2 from each driving shaft of these paired register rollers 4 and 5-2 via a train of gears 5-1, 6, 7, 8-1 and a torque limiter 9 whereby stable paper-feed passing is made to be possible so as not to cause the force to work on the paper in an unnecessary returning direction in time of stoppage. Also, simultaneously with this, as long as these register rollers 3 and 5-2 are rotating, the torque is imposed on the reversing roller 10 and thereby the second sheet of paper being double-fed and from those downward are all forced back, and changes in the start position of the next paper are reduced, preventing a fear of what synchronization fails to do.



Data supplied from the esp@cenet database - Patent Abstracts of Japan